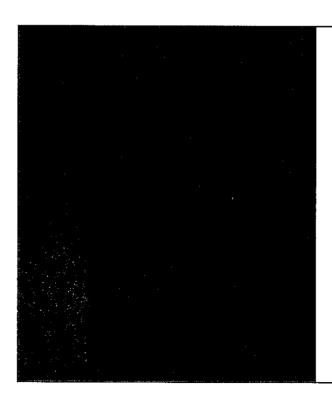
## **NUECES BBASC STUDY #1**

## RE-EXAMINATION OF THE 2001 AGREED ORDER MONTHLY TARGETS AND SAFE YIELD VERSUS CURRENT DEMAND EVALUATIONS

NEAC - OCTOBER 20, 2014 CORY SHOCKLEY



#### **DISCUSSION**

**Background** 

**Status** 

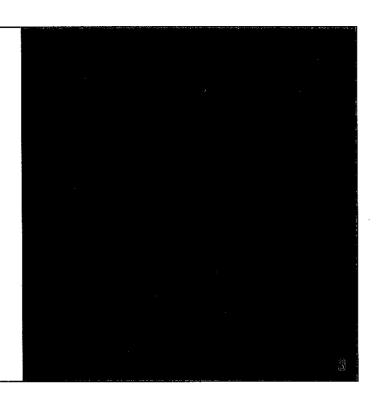
Results

Schedule

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#### **BACKGROUND**

- Nueces BBASC work plan
- Nueces BBEST
  - o Seasonal shift in inflows
    - BBEST Report Sec. 4.1
    - Nueces Bay
    - Choke Canyon Reservoir / Lake Corpus Christi System
  - Nueces BBASC Report (Sec. 2.3)
    - Opportunities to better manage FWI... since the 1995 development of the Agreed Order
  - o Corpus Christi Water Supply Model (CCWSM)



#### **GOALS**

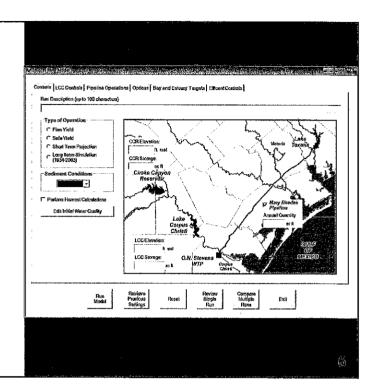
- Determine if a "shift" has occurred in the inflows to the Bay and CCR/LCC System and what impact this "shift" may have on Safe Yield and FWI to the Bay.
- Compare the results from a Safe Yield Demand of 205,000 acft/yr to a current demand of 130,000 acft/yr on FWI to the Bay.



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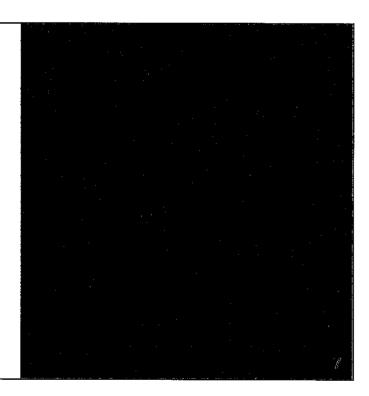
## TASK 1 – SEASONAL SHIFT

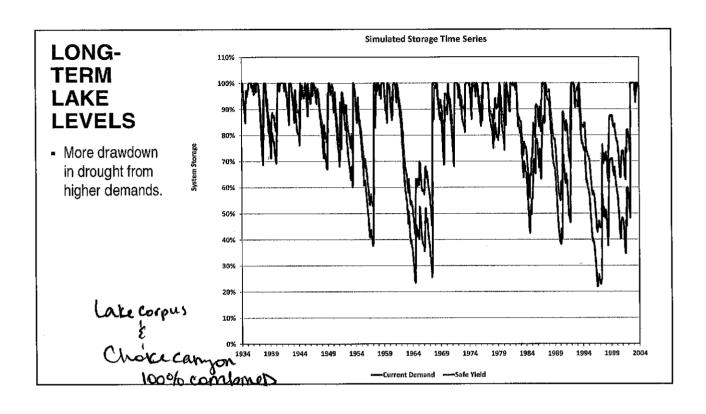
- Compile, Analyze and Evaluate
  - o Compilation is Ongoing
    - · Compile Hydrologic Data
      - » Inflows, Precipitation
      - » Long-term (1934 2014)
      - » Short-term (1986 2014)
      - » Recent (2004 -- 2014)
  - o Next Step Analyze Data
    - · Is there a shift?
    - · Compared to 2001 Agreed Order
    - · Monthly Inflow Targets
  - o Last Step Evaluate New Pattern
    - CCWSM Simulations
    - Same Volumes Different Distribution
    - · Yields & FWI to Bay
    - TXBLEND (if requested)

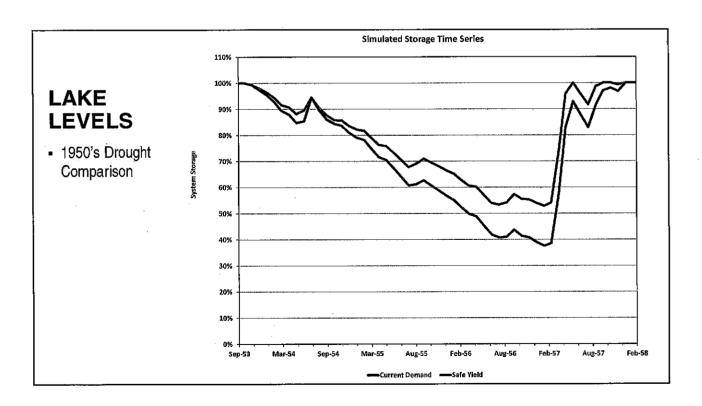


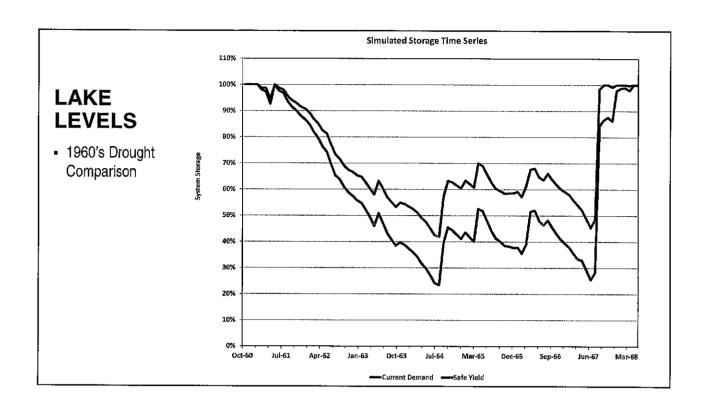
#### **TASK 2 - RESULTS**

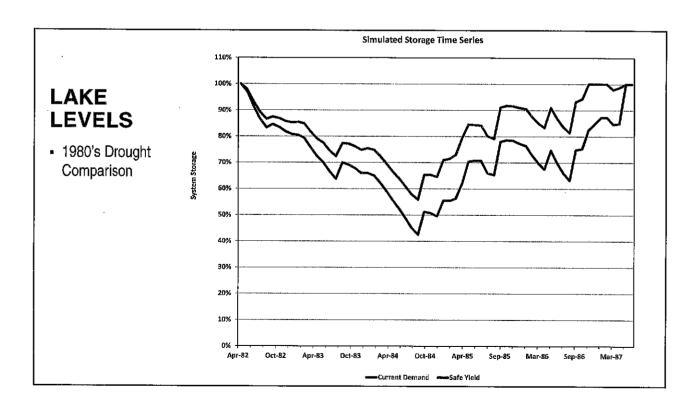
- Compare Safe Yield and Current Demand
  - o Safe Yield
    - 205,000 acft/yr
      - » 125,000 acft storage reserve (~14%)
      - » Regional Planning modeling assumptions
  - o Current Demand
    - 130,000 acft/yr
  - o Results
    - · Lake Level Comparison
    - FWI Comparison
    - Attainment Frequency
    - Mass Balance

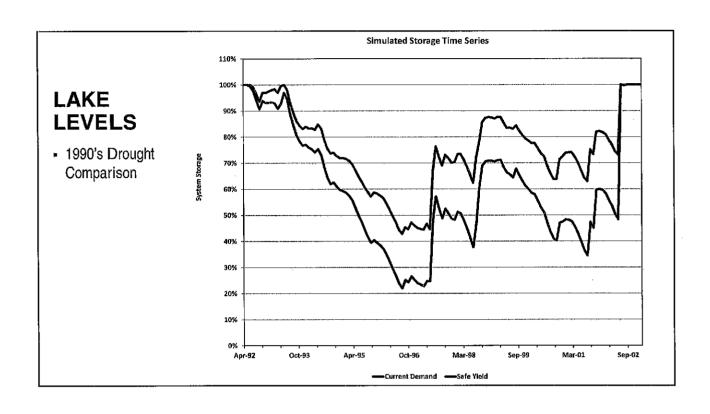


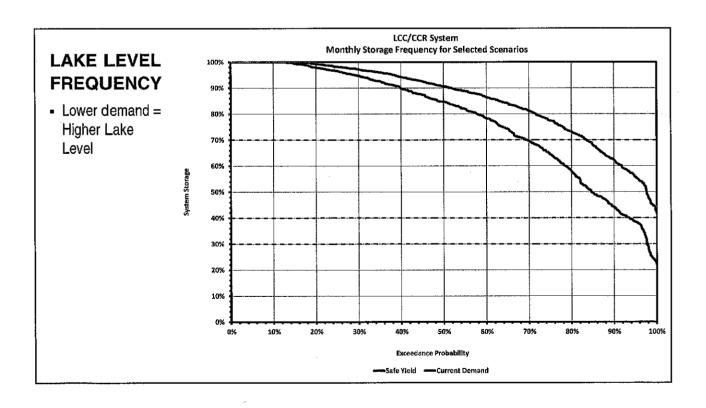


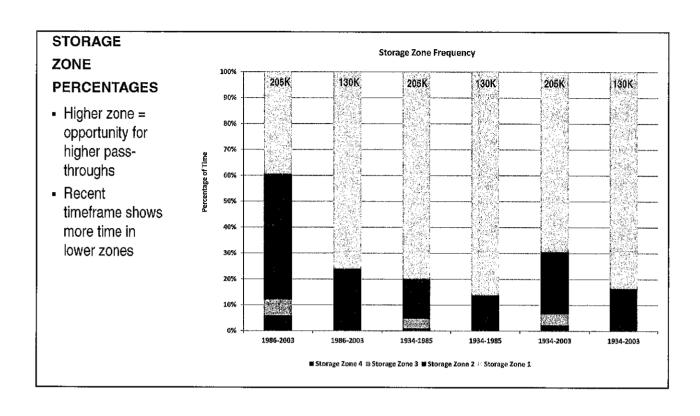


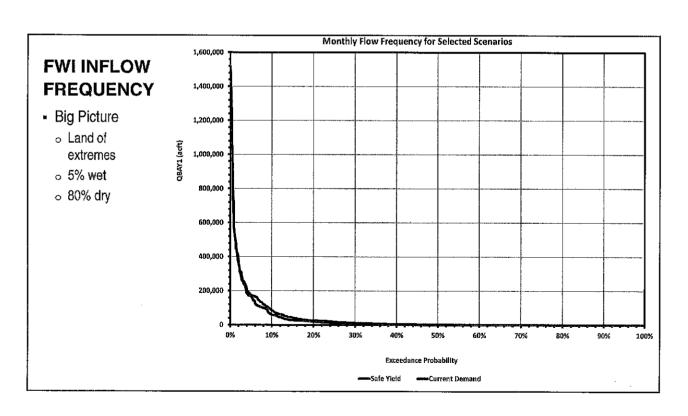


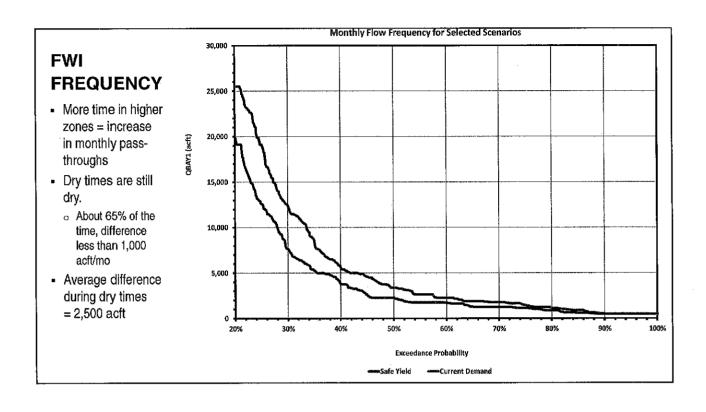


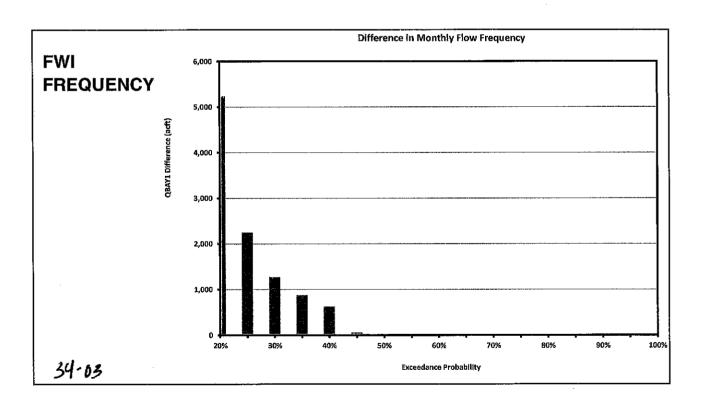


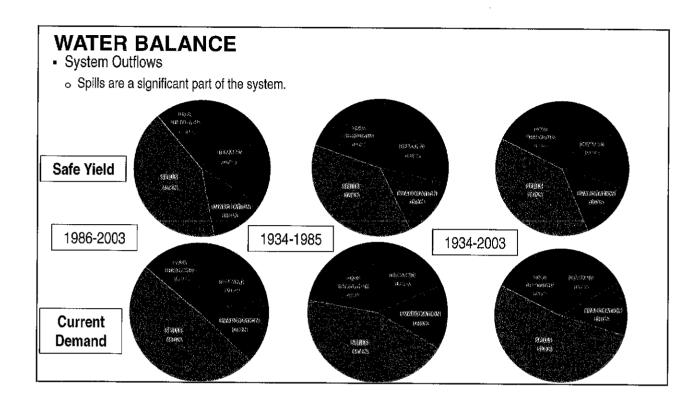


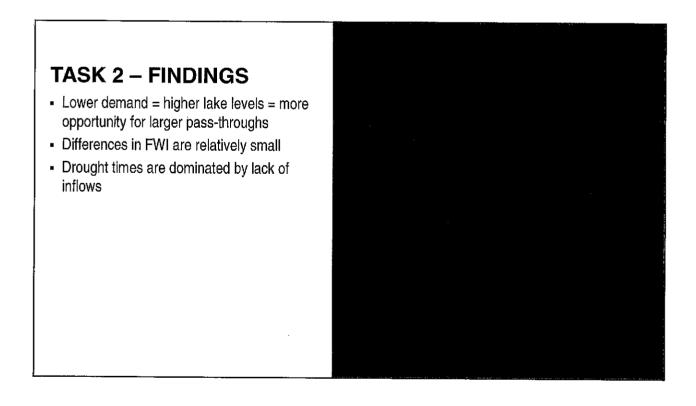






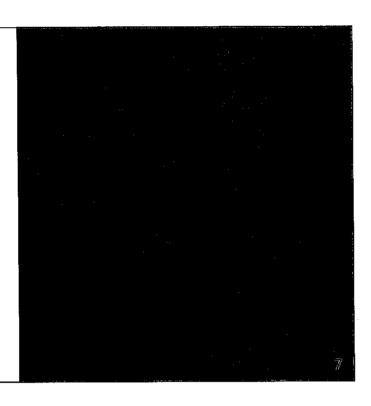






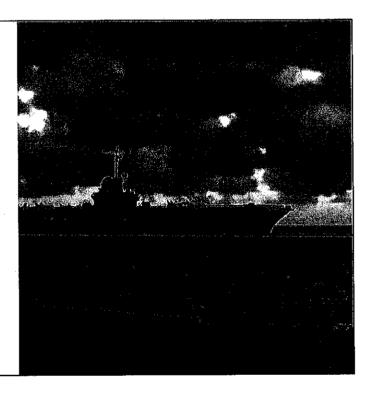
# TASK 3 – MEETINGS AND REPORT

- Task 3 Meetings and Report
  - o Kickoff Meeting (June 2014)
  - o Results Meeting #1 (Today)
  - o 2nd Results Meeting (2015)
  - o Draft and Final Report (2015)



### **SCHEDULE**

- Complete Analysis by March 2015
- Present Results Spring 2015
- Draft report after analysis
- Final report due August 2015



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